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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/764,193	01/23/2004	Michael L. McSwiney	ITL.1056US (P17793)	8063
<sup>21906</sup> TROP PRUNE	7590 10/09/2007 R & HU. PC		EXAMINER	
1616 S. VOSS ROAD, SUITE 750		•	BERRY, RENEE R	
HOUSTON, T	X //057-2631		ART UNIT	PAPER NUMBER
			1792	
			-	
	•		MAIL DATE	DELIVERY MODE
			10/09/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)
	10/764,193	MCSWINEY ET AL.
Office Action Summary	Examiner	Art Unit
	Renee R. Berry	1762
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the	correspondence address
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA.  - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period of Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b)	ATE OF THIS COMMUNICATION  36(a). In no event, however, may a reply be to will apply and will expire SIX (6) MONTHS from the cause the application to become ABANDON	DN. timely filed  m the mailing date of this communication.  IED (35 U.S.C. § 133).
Status		·
1) Responsive to communication(s) filed on 16 Ju	uly 2007.	
	action is non-final.	
3) Since this application is in condition for allowar	nce except for formal matters, p	rosecution as to the merits is
closed in accordance with the practice under E	Ex parte Quayle, 1935 C.D. 11, 4	153 O.G. 213.
Disposition of Claims		
<ul> <li>4)  Claim(s) 1-36 is/are pending in the application.</li> <li>4a) Of the above claim(s) 29-36 is/are withdraw</li> <li>5)  Claim(s) is/are allowed.</li> <li>6)  Claim(s) 1-28 is/are rejected.</li> <li>7)  Claim(s) is/are objected to.</li> <li>8)  Claim(s) are subject to restriction and/o</li> </ul>	vn from consideration.	
Application Papers		
9)☐ The specification is objected to by the Examine	r	
10) The drawing(s) filed on is/are: a) acceptable		Examiner.
Applicant may not request that any objection to the		
Replacement drawing sheet(s) including the correct	ion is required if the drawing(s) is o	bjected to. See 37 CFR 1.121(d).
11)☐ The oath or declaration is objected to by the Ex	aminer. Note the attached Offic	e Action or form PTO-152.
Priority under 35 U.S.C. § 119		
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents		a)-(d) or (f).
2. Certified copies of the priority documents		tion No.
3. Copies of the certified copies of the prior	• •	
application from the International Bureau	ı (PCT Rule 17.2(a)).	
* See the attached detailed Office action for a list	of the certified copies not receiv	ed.
•		•
	•	• • • • • • • • • • • • • • • • • • •
Attachment(s)		
1) Notice of References Cited (PTO-892)	4) Interview Summar	
2), Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08)	Paper No(s)/Mail [ 5) Notice of Informal	
Paper No(s)/Mail Date	6) Other:	· etern ripphousion

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## **DETAILED ACTION**

#### Election/Restrictions

Claims 29-36 are withdrawn from further consideration pursuant to 37 CFR 1.142(b) as being drawn to a nonelected invention, there being no allowable generic or linking claim. Election was made **without** traverse in the reply filed on July 16, 2007.

## **Double Patenting**

The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. A nonstatutory obviousness-type double patenting rejection is appropriate where the conflicting claims are not identical, but at least one examined application claim is not patentably distinct from the reference claim(s) because the examined application claim is either anticipated by, or would have been obvious over, the reference claim(s). See, e.g., *In re Berg*, 140 F.3d 1428, 46 USPQ2d 1226 (Fed. Cir. 1998); *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) or 1.321(d) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent either is shown to be commonly owned with this application, or claims an invention made as a result of activities undertaken within the scope of a joint research agreement.

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

Claims 1-28 provisionally rejected on the ground of nonstatutory obviousnesstype double patenting as being unpatentable over claims 1-19 of copending Application No. 2006/0228903. Although the conflicting claims are not identical, they are not Application/Control Number: 10/764,193

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patentably distinct from each other because both set of claims teach forming a silicon nitride film using a precursor containing disilacyclohexane.

This is a <u>provisional</u> obviousness-type double patenting rejection because the conflicting claims have not in fact been patented.

# Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1, 2, 5, 6-8, and 11 are rejected under 35 U.S.C. 102(b) as being clearly anticipated by US Patent No. 4,720,532 to Seyferth et al..

In regard to claim 1, Seyferth teaches a method comprising: using a fourmembered ring of alternating nitrogen and silicon atoms as a silicon precursor to form a silicon nitride film at column 2, line 1-12.

In regard to claim 2, Seyferth teaches the method of claim 1 further including using a nitrogen precursor to form a silicon nitride film at column 1, lines 63-68.

In regard to claim 5, Seyferth teches the method of claim 1 including using a

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halogenated cyclodisilazane at column 2, lines 10-12.

In regard to claim 6, Seyferth teaches the method of claim 1 including using an amine substituted cyclodisilazane at column 2, lines 12-18

In regard to claim 7, Seyferth teaches the method of claim 1 including using cyclodisilazane including an organic group containing one to approximately 20 carbon atoms at column 3, lines 32-40.

In regard to claim 8, Seyferth teaches the method of claim 2 including using a nitrogen precursor selected from the group consisting of ammonia, hydrazine and a substituted hydrazine at column 1, lines 63-68.

In regard to claim 11, Seyferth teaches a method comprising: using a silicon precursor to form a silicon nitride film, said silicon precursor being a substituted ring comprising the general formula: (Si).sub.a(N).sub.2a, where silicon is bound to two nitrogens, where said nitrogens are bound to said silicon and nitrogen, and where a is an integer greater than or equal to one at column 2, lines 1-18.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Renee R. Berry whose telephone number is (571) 272-1459. The examiner can normally be reached on 8:30 to 5:00.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tim Meeks can be reached on 571-272-1423. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

RRB October 1, 2007

TIMOTHY MEEKS
SUPERVISORY PATENT EXAMINER